

APPENDIX BQUALIFICATIONA. GENERAL

This Appendix provides procedures for the establishment and maintenance of the qualification program, and the associated QPLs and QMLs. This Appendix implements 10 U.S.C. 2319 (reference (old)). It must be applied consistent with that statute and with Subpart 9.2 of the FAR (reference (d)). Figure B-1 shows the general DoD qualification process.

1. Responsibility for qualification. The Preparing Activity for a specification is responsible for qualification. The Preparing Activity can have an agent maintain the document, administer the qualification program, or perform other essential requirements. The requirement for qualification shall be specified in the applicable Federal or military specification or an adopted NGS at the time of initial document promulgation. Adopted NGSS are assigned to an Adopting Activity, and hereinafter, the term "Preparing Activity" shall also mean the "Adopting Activity."

2. Purpose of Qualification. The purpose of qualification is to provide for the completion of long or highly-complex evaluations and tests prior to and independent of any acquisition or contract. Qualification comprises the entire process by which a manufacturer's products (as shown on QPLs) or processes and materials (as shown on QMLs) are proven to be in conformance with the requirements set forth in the governing specification. The qualification program reduces acquisition costs by reducing or eliminating repetitive surveillance audits, first article tests, or qualification tests for each individual product procurement and contract. Qualification also reduces unit product costs and improves readiness through ensured continuous availability of products with requisite quality, reliability, performance, and safety. As evidence that products or processes and materials meet the specified specification requirements, they shall be listed, as follows:

a. QPL. A QPL focuses on qualifying individual products or families of products. As evidence that those product(s) meet the established qualification requirements, the product(s) shall be listed on a QPL. A QPL will normally be appropriate for items of supply that are stable and will be continually available for an

extended period of time, thereby making it practicable to qualify individual product(s) without incurring prohibitive testing costs.

b. QML. A QML focuses on qualifying an envelope of materials and processes rather than individual product(s) . That envelope is qualified by carefully selecting representative worst case test vehicles or representative samples from production that contain all potential combinations of materials and processes that may be subsequently used during production. As evidence that those processes and materials meet the established qualification requirements, the envelope of processes and materials shall be listed on a QML. A QML will normally be appropriate for items of supply that have very rapid technological advancement or a myriad of variations or custom designs that make individual product qualification impractical or excessively expensive.

B. DETERMINE THE NEED FOR QUALIFICATION

1. Justification. Prior to inclusion in the applicable specification, the Preparing Activity shall justify in writing the necessity for establishing a requirement for qualification and must specify why the qualification requirement must be demonstrated before contract award. The following situations are the only ones that shall be used to justify the qualification requirement:

a. The time required to conduct those tests identified in the applicable specification as exclusive to qualification exceeds 30 days (720 hours) . It must be demonstrated that such extensive testing would delay delivery to the Government. The inclusion of those same tests in quality conformance inspection normally conducted during the production process is evidence that this justification is not applicable. List the tests, which if required for product acceptance, would delay product delivery. Show time required to perform each test. Do not list any tests that individually do not require sufficient time under ideal conditions to cause undue delay, unless such tests comprise a required sequence of several tests.

b. Qualification tests require special equipment not commonly available. "Not commonly available" must be supported by a statement such as "equipment required is available only at a Government facility located at \_\_\_\_\_." List the specific test equipment(s) not commonly available and describe briefly why not commonly available.

c. Qualification tests for survival or emergency life-saving equipment. The justification must include the hazardous consequence or potential life threat of not performing tests as qualification tests. /

2. Restrictions. The Preparing Activity shall not include qualification in a specification:

a. For a system or subsystem. Other techniques should be considered, such as first article inspection or bid sample.

b. When only one manufacturer has expressed an interest in qualification.

c. When test facilities and resources are not available.

d. When the previous editions of a specification did not include a qualification requirement. The Preparing Activity shall submit requests for deviations from this restriction to their DepSO for approval. If the DepSO agrees, the DepSO shall send the request to the OASD(P&L)SPD for final approval.

e. To encourage development of an item.

f. To discourage possible sources of supply.

g. When the estimated cost of test and evaluation can not be documented.

### C. APPROVAL OF QUALIFICATION

Before coordination, the Preparing Activity shall submit requests for the inclusion of qualification in new specifications and the addition of qualification as a new requirement to an existing specification to its DepSO for approval. If the DepSO agrees, the DepSO shall send the request to the OASD(P&L)SPD for final approval. As a minimum, the requests for qualification shall include the following:

1. Intended use of product.

2. Applicable justification from subsection B.I., above.

3. The following test data information:

a. Availability of test facilities.

b. The names and locations of testing facilities (if Government facilities) .

c. Time required to complete tests (barring sample failures) .

d. Who will pay for qualification tests.

e. Proposed charges to supplier when testing is to be done at a Government facility or contract laboratory.

f. Estimated cost of test if testing is to be done at a laboratory not Government-owned or contracted for.

g. Estimated cost to supplier for preparing and submitting sample.

h. Proposed date for establishment of the listing.

4. The names and addresses of possible suppliers interested in submitting samples for testing.

5. Name of activity or activities that will have inventory control and procurement responsibilities.

6. Estimate of items purchased annually.

#### D. WAIVER OF QUALIFICATION

Only the Preparing Activity may waive the qualification requirement. Further, the Preparing Activity can only waive the qualification requirement without rejustification when it determines that the immediate procurement situation is an emergency (that is, circumstances that are life or mission threatening) . If the Preparing Activity waives the qualification requirement, it must send a letter to the OASD(P&L)SPD through its DepSO describing that emergency situation. If the Preparing Activity waives qualification for any other reason, it must rejustify the qualification requirement and submit the request to its DepSO for approval. If the DepSO agrees, the DepSO shall send the request to the OASD(P&L)SPD for final approval.

E. ESTABLISHING A OPL OR A OML

1. Publicity

a. Publication. The Qualifying Activity shall urge manufacturers to submit for qualification those products that can meet specification requirements, so a listing can be established after the issuance of a new specification, or when a revision of the existing specification requires requalification. In an attempt to obtain additional sources, the Qualifying Activity shall publicize (for example, through the Commerce Business Daily) every 6 months, solicitations of interest to potential suppliers on listings that contain products of only one actual manufacturer. The Qualifying Activity shall publicize the intention to establish, reissue, or expand the number of sources on the list.

b. Publication Notification. The Qualifying Activity shall:

(1) Send a notice to the Commerce Business Daily for publication in the synopsis of U.S. Government Proposed Procurements Sales and Contract Awards. The notice shall be clearly marked "Qualification Test Information" and shall contain the name or type of product(s); the applicable specification; and the name and address of the activity to be contacted for complete information on qualification under the specification. The synopsis must be in the format specified in Subsection 5.207 of the FAR (reference (e)) .

(2) Contact companies known to be interested in submitting products for qualification under the applicable specification and companies known to supply the desired type of product. Also, contact related trade associations to promote widespread publicity.

c. Additional Public Notice to Industry. The Qualifying Activity shall send notices in the following form to commercial journals and trade publications of the industry concerned, and to all firms or individuals considered to be potential suppliers:

"The (service or command), Department of the (Army, Navy, or Air Force), has announced the intention to establish a QPL (or a QML) for (item under specification) . Companies that have a product meeting the requirements of this specification are urged to contact (name and address of activity) for an opportunity to test their products for qualification, since future acquisition awards will be made only for such products that have been tested and approved for inclusion in the QPL (or the QML) . The cutoff date for applying to

have products tested for inclusion in the initial issue of the QPL (or the QML) is (date)."

2. Request for Qualification by Manufacturers. The Qualifying Activity shall furnish the applicant all necessary information as soon as possible after the request for qualification has been received. That information shall include the following:

- a. A copy of the latest issue of the specification.
- b. A copy of the SD-6 (reference (1)) with a specific request for the information and certification, as contained therein. Reference (1) contains information for applicants about the submission of products for qualification.
- c. A request for any information required besides to the information requested in paragraph E.2.b., above.
- d. A schedule of charges for qualification testing, if applicable.
- e. Facilities survey requirements, when applicable (see subsection E.5., below) .
- f. A statement that no qualification testing shall be authorized until the applicant has been notified in writing that the information required by paragraphs E.2.a., E.2.b., and E.2.c., above, has been received and determined to be satisfactory.

3. Request for Qualification by an Authorized Distributor. A distributor may be listed on a QPL, but not on a QML. When a distributor wishes to qualify a product carrying its own brand designations, the distributor shall request the manufacturer to certify that the distributor is authorized to rebrand and distribute the product with the distributor's brand designation. When the authorized distributor is certified to rebrand the part, the original part manufacturer's identification shall be included on the part. If there is not enough space on the part for the authorized distributor's rebrand and the original manufacturer's identification, a code symbol for the original manufacturer shall be used. The original manufacturer's identification or the original part manufacturer's code symbol shall allow traceability to the original manufacturer for failure analysis, corrective action, and lot identification. When the authorized distributor furnishes such certification, a sample of the rebranded product shall be requested from the distributor for

qualification. The authorized distributor shall not perform qualification examination and testing until the certification requirements stated in the SD-6 (reference (1)) have been met. The Qualifying Activity may extend qualification approval to the rebranded product of the authorized distributor without further test, on certification by the manufacturer that the rebranded product is the same as the product previously qualified under the manufacturer's designation. The authorized distributor shall submit to the Qualifying Activity its brand designation, its name and address, the name and address of the actual manufacturer, and the address of the plant at which the product was manufactured. Authorization for a distributor to rebrand applies only to products listed on a valid QPL at the time of the rebrand request.

4. Furnishing Products Not Requiring Additional Listings. To be eligible for award of a contract to furnish a qualified product marked with the brand designation of the qualified manufacturer, a supplier must state in its bid the name of the actual manufacturer, the address of the plant where the product was manufactured, the brand designation, and the qualification test reference. Additionally, the supplier must certify that the product being offered to the Government has not been added to or changed in any way by the supplier, and is the product of the manufacturer that is listed on the QPL. Additional listing of the product on the QPL is required only when the product is rebranded with the brand designation of an authorized distributor.

5. Manufacturing Facilities (Plant) Audit (Survey). When the Qualifying Activity requires facilities audits, the audit shall be conducted before authorization of test and shall apply to both domestic and foreign manufacturers. Facilities audits for product(s) and detailed requirements for these surveys shall be conducted when specified in the specification. Requirements may include survey of inspection systems, quality and reliability assurance programs, test facilities, processes, materials, production facilities, test capability, and incoming inspection. The audit shall verify that the manufacturer has an effective self-audit program. If the audit has in its scope proprietary products or processes, that portion of the audit must be performed by, and any access to the proprietary information thereby exposed must be limited to, employees of the Government who have a need to know the information. The Government shall handle all proprietary data in a controlled and secure manner to ensure that no unauthorized dissemination occurs. The Government shall maintain qualification data and reports for its records. Proprietary information, commercially sensitive data, or matters

relating to national security should be appropriately identified in the report as "restricted for release." Such identification notifies the Government of information requiring protection from release to other sources. Any request for such information by non-Government sources shall not be accommodated, unless the Government determines that such information was either incorrectly restricted by the contractor or is already available to the public. The Government shall not release data as restricted by the manufacturer until the manufacturer furnishing the information is notified and has the opportunity to object to the release. If the manufacturer objects, the qualification data will only be released as required by the Freedom of Information Act, 5 U.S.C. 552 (reference (ee)) .

6. Testing. The testing of products and placing of qualified products or processes on the list shall be done on an equitable basis so as to achieve economy for the Government and fair treatment for all manufacturers with the capability to meet the performance, quality, and reliability requirements specified in the specification. The Qualifying Activity shall not:

a. Authorize qualification examination and testing until an approved and dated specification is available.

b. Use a specification containing a qualification requirement until the completion of qualification tests has resulted in approved products or manufacturers, except in an emergency (defined as a "life- or mission-threatening situation") .

c. Use test data collected outside the purview of qualification tests (for example, first article test data) as the basis for qualification approval, except in an emergency as determined by the Preparing Activity (defined as a "life- or mission-threatening situation") .

7. Extension of Qualification. Except as provided herein, qualification shall apply only to the product, process, or materials that is manufactured at the plant that produced, examined, and tested the sample. The Qualifying Activity may extend qualification to the same product or family of products produced by the same or other plants of the manufacturer, when the following conditions exist:

a. Examination or test of the product of other manufacturing plants shows that the product is at least equal in all aspects to the initial qualified product test sample.



b. That the quality control and processing at the other manufacturing plants are such that the products produced there are at least equal in all aspects to the qualified product. Ordinarily, this determination will be based on inspection of the plant, quality control system, and processing procedures. If a facility or product line, or both, come under new ownership and management, the Qualifying Activity must evaluate the equivalence of the product or process and quality control systems to ensure that the product or process is unchanged and that the new ownership and management have the expertise and capability to provide products of requisite quality, reliability, and safety. The Qualifying Activity shall document the evaluation and retain it in the permanent file.

8. Notification of Test Results. The Qualifying Activity shall notify the manufacturer about the results of the evaluation of the tests of its products or sample test specimen, and whether the product or process qualify under the requirements of the applicable specification. The Qualifying Activity shall promptly notify the manufacturer when a product or process fails qualification and furnish specific reasons why the testing was not approved. When a product is qualified, a letter of notification shall be furnished to each Custodian of the specification; to the authorized distributor if they are the applicant; and to the GSA, if a Federal specification is involved. The letter of notification shall include:

a. The listing as it will appear on the QPL or the QML containing the following information:

(1) Government designation under which the product qualified (type, class, or other designation, as shown on the specification) . See figures B-2 through B-5.

(2) The applicant's brand designation for the specific product, family of products, or processes.

(3) The test or qualification reference (test report number) assigned to the products or sample test specimen.

(4) The complete address to which correspondence shall be sent and the complete address of the plant which manufactured the product, family of products, or test specimen, submitted for test.

(5) The commercial and Government entity (CAGE) code, as applicable (see figure B-6) .

b. The following conditions:

(1) Such listing does not guarantee acceptance of the product in any future purchase.

(2) Such listing does not constitute a waiver of any requirements of the specification or of the provisions of any contract.

(3) Any use of such listing for publicity, advertising, or sales shall not state or imply that the product or the process is the only one of that type so qualified, or that the Government in any way recommends or endorses the manufacturer's product in preference to other qualified products. Violation is cause for removal of the product or the process from the list by the Qualifying Activity.

(4) The listing applies only to products or process produced in the plant specified in the letter of notification and is effective at 8:00 a.m. (local time of the Qualifying Activity) as of the date of the letter of notification.

(5) Such listing applies to amendments or revisions of the specification, unless otherwise notified.

(6) Such listing applies only to products or process identical to those qualified or to products defined in the family of products granted qualification coverage. The Qualifying Activity must be advised in advance of any intended change to the product or process and must be provided with a complete description of the change. Failure to notify the Qualifying Activity of any change is cause for removal from the listing regardless of the extent of the change.

(7) Manufacturers must comply with a requirement for retention of qualification to retain the listing. Failure to comply shall be sufficient cause for removal from the listing.

F. DEVELOPMENT OF A OPL OR A QML

1. General. Preparing Activities shall prepare, maintain, and cancel QPLs and QMLs, when required, in consonance with their responsibilities for specifications under the procedures established in this Appendix. An approved and dated military or Federal specifica-

tion or an adopted NGS for which inclusion of qualification requirements has been-approved must exist to establish a QPL or a QML.

2. Purpose. The purpose of a QPL or a QML is to allow the manufacturer to provide, and the purchaser to obtain, satisfactory precontractual evidence that a product or a family of products have been tested and have met the requirements of the applicable specification. The intent of the list is to do the following:

a. Obtain products of requisite performance quality and reliability by applying special techniques including testing of actual products or representative sample specimens using specific technology processes and materials that will be used in subsequent products or applying special criteria including testing of a product for compliance with the specification.

b. Establish and standardize the requirements for evidence of manufacturer's capability in advance of acquisition.

c. Reduce acquisition lead time.

d. Reduce test costs by eliminating the need for repetitive first article testing, and minimizing redundant, long, expensive test requirements and tests.

e. Provide an additional tool for optimizing the relationship between engineering risk and quality assurance cost.

f. Improve readiness through ensured continuous availability of quality and reliable products from viable suppliers.

g. Establish a long term relationship with the supplier to ensure continuous conformance to requirements and continuous product quality improvements.

3. Significance of Listing. Inclusion of a product or a manufacturer on a QPL or a QML:

a. Does not in any way relieve the supplier of its contractual obligation to deliver items meeting all specification requirements.

b. Does not guarantee acceptability under a contract since the items must conform to all contractually specified requirements.

c. Does not constitute a waiver of any requirements for either in-process or other inspection or for the maintenance of quality control measures satisfactory to the Government.

d. Does not in any way relieve the original equipment manufacturer of its contractual obligations to ensure that delivered items comply with all specification requirements.

4. Issuance. A QPL or a QML shall be issued as soon as practicable after promulgation of a specification. Not more than 30 days may elapse between the determination by the Qualifying Activity that a supplier's product has successfully passed all qualification tests and the transmission of the new QPL or QML or revision notice to the DoDSSP for printing and distribution. QPLs and QMLs are processed for reproduction and distribution in the same manner as the basic specification.

5. Product Coverage. When a specification with qualification provisions describes more than one type, class, grade, process, material, or other designations, all products or processes qualifying shall be on a single QPL or QML. Separate QPLs or QMLs shall not be established based on specification sheets or detailed specifications which are associated with a general specification. The list shall identify the qualified products by type, class, grade, process, material, or other designation shown in the specification.

G. MAINTENANCE OF A OPL OR A OML

1. Manufacturer's Obligations. The manufacturer shall:

a. Maintain adequate process and quality control procedures to ensure that the items comply with all specification requirements.

b. Report immediately any discrepancies disclosed during testing, periodic reexamination of its product and production process controls to the Qualifying Activity.

c. Ensure that delivered items conform to all requirements including performance, quality, reliability, and all other specified product characteristics.

2. Manufacturer's Advertising. A manufacturer may advertise that a qualified product has received DoD qualification, if the manufacturer does not state or imply in its advertisement that the product is the only one of that type so qualified or that the Depart-

ment of Defense in any way recommends or endorses the manufacturer's product in preference to the other qualified products. A manufacturer can not advertise or imply that its products are qualified or meet a specification that requires qualification unless they are in fact qualified and either listed or approved for listing on the applicable QPL or QML. Violation shall be cause for removal of the product or the manufacturer from the applicable list by the Qualifying Activity and possible suspension, debarment, or referral for criminal investigation.

3. User Obligations. Users of the list shall take necessary measures (other than initial or periodic requalification) to ensure that the qualified products comply with the applicable specification requirements. In support of the qualification program, the procuring activity for a qualified product is required to, and users of the list are encouraged to:

a. Promptly report to the Qualifying Activity and to the manufacturer any known or suspected nonconformance of military qualified products.

b. Voluntarily submit to the Qualifying Activity periodic summaries of receiving inspection and in-plant quality control monitoring results that reveal adverse quality and reliability trends of qualified products.

c. Provide feedback data to the Qualifying Activity and to the manufacturer to support the total quality management concept for continuous improvement of the process based on field information.

4. Government Obligations. Government surveillance conducted by the Qualifying Activity or the Government quality assurance representatives does not relieve the manufacturer, authorized distributor, or the user of the list of the responsibility to exercise adequate process and product quality control procedures. The Qualifying Activity shall serve as the DoD focal point to consolidate findings and recommend corrective action for qualification problems. While the following will expedite problem resolution through the use of a technical focal point, the Government shall not knowingly accept material which contains suspected nonconforming parts. Depending on the gravity of the problem, contract administration activities may withhold acceptance of suspected end items pending problem resolution or verification of the contractor's compliance of material, products, and services to contract requirements. Use the detailed procedure in

subsection G. 5., below, for reporting nonconformance. The Qualifying Activity shall:

a. Notify Agencies responsible for acceptance of end item equipment that may contain possible nonconforming parts. Advise them of the nature and degree of risk and urgency in the situation, and if necessary, call a meeting to discuss the problem.

b. Indicate the action taken with the supplier or determine the action required.

c. Disseminate information immediately including potential operation problems if items are built into equipment.

d. If necessary, establish a task force to investigate the problem and develop a recommended solution; and disseminate the knowledge gained to the appropriate Government and industry parties affected by the action. Recommendations should include sufficient engineering data so that decisions can be made concerning the identity and possible use of nonconforming items, for example, disposition of equipment containing potentially defective items.

5. Government Obligations for Nonconforming Items. The following actions shall occur when the possibility of nonconforming items is suspected regarding a qualified part:

a. The activity that discovers or receives a report of a potential problem will notify the specification Qualifying Activity.

b. The Qualifying Activity shall conduct a preliminary evaluation and risk assessment of the problem.

c. The Qualifying Activity shall notify the OASD (P&L) SPD, the appropriate quality and procurement offices, the DepSOs, the other Government agencies, and the industry associations about the possible nonconformance (technical problem or specific violation) affecting field usage.

d. The Qualifying Activity shall initiate corrective action plans (as applicable) and initiate removal of parts or manufacturers from the QPL or the QML, in accordance with subsection H.I., below.

e. The Qualifying Activity shall instruct manufacturers to prepare and coordinate issuance of a Government Industry Data Exchange Program (GIDEP) ALERT or Problem Advisory. The Qualifying

Act ivit y should prepare and issue the GIDEP ALERT or Problem Advisory when the manufacturer is reluctant or slow in doing so. The Qualifying Activity should use GIDEP actions or Agency notices to notify Part users of the problem.

f. The Qualifying Activity shall have the manufacturer conduct a self audit to identify the problem areas and shall have the manufacturer prepare a corrective action plan.

g. The Qualifying Activity shall gather independent testing information and prepare verification action.

6. Government's Obligations on Availability of Data. Except as required by the Freedom of Information Act, 5 U.S.C. 552 (reference (ee)), the Government shall not distribute qualification data unless the Qualifying Activity obtains the consent of the manufacturer, determines that the release is in the best interest of the Government, and follows the current security policies. Once release is approved, the Qualifying Activity may:

a. Supply the data to other activities of the Government.

b. Supply the data to foreign Governments that are purchasing, operating, or maintaining supplies that involve products covered by specifications requiring qualification. Such release shall be made with the condition that the information will not be further distributed, but will be used only for furnishing supplies and services to that Government.

c. Authorize the supplier to furnish qualification information for qualified products sold to foreign Governments after clearance with the appropriate export control authority.

7. Review of Qualification Requirement. The Preparing Activity shall review specifications having the requirement for qualification every 2 years to determine the need to continue the qualification requirement. In this review, the Preparing Activity shall consider whether more definitive requirements for the product, advances in manufacturing techniques and quality control methods, or improvements in testing apparatus and techniques may have eliminated the need for qualification (see subsection B.I., above) .

8. Retention of Qualification. To retain qualification approval of products, one of the following actions is required:

- a. Certification by the manufacturer.
- b. Periodic submission of new test data as may be required in the specification.
- c. Complete requalification testing, as may be required in the specification or by the Qualifying Activity.

9. Certification of Qualification Status. At the time of the 2 year review, the Preparing Activity shall send a DD Form 1718, "Certification of Qualified Products," to a manufacturer when the applicable specification does not contain a retention of qualification requirement and request that the manufacturer complete the form. The manufacturer's products will be removed from the listing if the certification is not returned after due notice. The Preparing Activity shall reprint the list on completion of the certification review showing the date of validation. The form must be signed by a responsible official of management. The form requests information such as whether:

- a. The listed product(s) is still manufactured at the plant(s) as shown on the listing.
- b. The plant(s) is still under the same management.
- c. The product(s) is being manufactured under the same conditions as originally qualified, with the same process, materials, construction, design, and manufacturer's part number of designation.
- d. The product(s) meets the requirements and tests of the latest issue of the specification.
- e. Any product change was made after the date the product was qualified. Unapproved product changes require justification and supporting data as to why the change will not affect the qualification status of the product.

10. Reexamination and Retest. The Qualifying Activity shall determine, based on the extent of specification or product changes and other available data, whether products need to be removed from the QPL or the QML until retested, or whether such action can be delayed pending the outcome of the tests or receipt of additional data. If the Qualifying Activity determines that the product should remain on the QPL or the QML, the Qualifying Activity shall establish a maximum time limit for submission of the samples or test data



before removal. The Qualifying Activity shall require the reexamination of a qualified product under any of the following conditions:

a. The manufacturer has modified the product or changed the material or processing so that the validity of previous qualification is questionable.

b. The requirements in the specification have been revised to affect the characteristics of the product.

c. When, as a result of questionable performance reports, it is deemed necessary to determine that the product continues to meet all the specification requirements.

d. When required by retention of qualification requirements in the specification.

11. Limitations on Specifications for Which No Listing Has Been IS sued. During the 2-year review, the Preparing Activity shall identify specifications (including specification sheets) having a qualification requirement for which no product has been qualified and determine whether any products are being tested for qualification. If not, the Preparing Activity shall take one of the following actions:

a. Revise the specification to eliminate the qualification requirement .

b. Cancel the specification, if the product is not needed.

12. Limitations on Specifications Having a List That Includes the Product of Only One Source. During the 2-year review, the Preparing Activity shall identify specifications (including specifications sheets) having a QPL or a QML that lists single-source conditions (that is, a style, class, part number, dash number listed with only one source) . The Preparing Activity shall take one of the following actions:

a. Modify the specification requirements so as to permit the qualification of available products suitable for equivalent applications and acceptable to the current users of the list.

b. Revise the specification to eliminate the qualification requirement .

c. Provide justification for having a single-source condition and what actions are being taken to alleviate the condition to the OASD(P&L)SPD with a copy to the applicable LSA and DepSO.

13. Revisions and Amendments. QPL or QML changes shall be made by revision or amendment, as applicable. A revision is a new complete list and shall be issued when the proposed changes are numerous. When the QPL or the QML consists of only one-sheet, changes shall be by a revision rather than amendment. An amendment is a supplemental document containing only the changes required to the existing list, whether corrections, deletions, or additions. Amendments shall be cumulative; that is, successive amendments shall be written so that each shall contain all the information and thus supersede the preceding amendment in its entirety.

14. Cancellation. The Preparing Activity shall cancel a QPL or a QML by separate notice when the associated specification has been canceled or revised to delete qualification. The QPL or the QML shall also be canceled when it is determined to be no longer valid under requirements of the revised specification.

15. Inactive for New Design. When a specification is declared "Inactive for New Design," the QPL or the QML applicable to the specification shall not be canceled (except under determination that it is not needed), but shall be maintained and revised to be identified as "Inactive for New Design."

#### H. REMOVAL FROM A LISTING

1. Reasons for Removal. When a manufacturer or authorized distributor fails to comply or demonstrates an inability to comply with specification requirements, it may be necessary to take one or more of several actions. First, the Qualifying Activity shall remove the product(s) from a QPL or remove applicable process from a QML. Removal could include a broad range of directly or indirectly affected products, possibly the manufacturer's entire family of qualified products. Second, the Qualifying Activity shall remove the manufacturer's certification or impose stop shipment or suspensions (when applicable under the specification.) The Qualifying Activity may remove a product, a manufacturer, or a process; decertify a manufacturer; or stop shipment, when such action is necessary to protect both the Government's interest and the interest of the users of "the QPL or the QML. The following reasons illustrate the circumstances under which adverse actions or removal might be warranted:

a. The product or process offered under contract does not meet the requirements of the specification.

b. The manufacturer has discontinued manufacture of the product, or has changed design, materials, or processes to such an extent that the product no longer meets the requirements of the specification.

c. The manufacturer or authorized distributor requests that they or their product or their process be removed from the list.

d. One or more of the conditions under which qualification was granted (including the JAN branding, J branding, or family of products policies) have been violated.

e. The requirements of a revised or amended specification differ sufficiently from the previous issue so that existing test data are no longer applicable for determining compliance of the product or process with the revised or amended specification.

f. Failure of a manufacturer to notify the qualifying activity of a change in design, material, manufacturing, process (including quality conformance), or plant location.

g. The product is that of a contractor, firm or individual whose name appears on "The Consolidated List of Debarred, Suspended, and Ineligible Contractors."

h. The manufacturer has not complied with the retention of qualification requirements.

i. The manufacturer has publicized that its qualified product or process is the only one of its type so qualified or that the Department of Defense in any way recommends or endorses that manufacturer's product in preference to the other qualified products.

j. The manufacturer, on invitation, has failed or declined to bid on Government contracts for the product for ten consecutive solicitations or for a period of 2-years during which solicitations were issued, whichever is less.

k. Quality or reliability problems are detected in a manufacturer's products.

2. Procedures for Removal. The procedures below apply to removal of a product or a family of products from a listing:

a. If the decision to remove a product or process from a listing is made for the reasons indicated in paragraphs H.1.a., H.1.d., H.1.f., H.1.h., or H.1.i., above, consideration shall be given to the circumstances which gave rise to that action. The product or process should again be listed on that listing once the deficiencies noted have been corrected to the Government's satisfaction. Factors to be considered in making that determination are the seriousness of the deficiencies noted, the circumstances under which those deficiencies came to light (for example, Government audit or voluntary disclosure), and whether circumstances indicate that such actions were intentional or fraudulently motivated or reflect a repeated or continuing course of conduct.

b. When it is decided that a product, family of products, or process is to be removed from a listing, the manufacturer or authorized distributor of the products or process will be sent a written notice (registered, with a return receipt requested) of the action taken, the reasons for removal, and an opportunity to respond to that notice. Unless the notice indicates otherwise, removal of a product, family of products, or process from the listing shall be effective on the date of the notice.

3. Notification of Removal. After the Qualifying Activity determines that a product(s), family of products, a process, or a manufacturer will be removed from a QPL or a QML, the Qualifying Activity will send the manufacturer or the authorized distributor a notification of removal. The Qualifying Activity shall amend or revise the list to delete the items without undue delay. If removal is for the reason in paragraph H.1.e., above, the Qualifying Activity shall advise the manufacturer or authorized distributor of the action required to prove product compliance to the amended or revised specification. The Qualifying Activity shall furnish copies of the notification of removal to interested DoD elements and other Government Agencies.

4. Publication of Removal. When the Qualifying Activity has taken action to effect the removal of a product from a list, the Qualifying Activity shall determine whether it would be in the Government's interest to publish in the Commerce Business Daily and known related trade publications, a notification to Government organizations and contractors that the product has been removed by adverse action. The Qualifying Activity shall publish such notifica-

tion as soon as practicable. The notification shall be include the following information:

- a. The QPL or the QML identification number.
- b. A statement that "Notification is herewith given that the following product (for QML, process) was removed from QPL-XXXXX (or QML-XXXXX) on (date).
- c. Name of Government Representative.
- d. Title of Government Representative.
- e. Name of Government Installation.
- f. Address of Government Installation.

#### I. GUIDELINES FOR CHOOSING QPL OR OML

1. QPLs. A QPL is a list of products or family of products that have met the qualification requirements set forth in the applicable specification, including appropriate product identification, tests or qualification reference, and the name and plant address of the manufacturer and authorized distributor. A QPL is appropriate in situations where technological changes makes it practicable to qualify individual products without incurring prohibitive testing costs or delays. A QPL should be used when you are **only** interested in qualifying individual parts. Products to which qualification has been extended under the family of products concept are to be listed on the appropriate portion of the QPL in the same manner as tested products, except that the manufacturer's designations or type numbers of the successfully tested products on which family qualification has been based shall be listed in the place normally reserved for the test or qualification reference test report number. The QPL shall be prepared, as shown in figures B-2 and B-3. Format requirements for QPLs are specified in section J, **below**.

2. OMLs. A QML is a list of manufacturers' facilities or lines, or an envelope of processes and materials that have been approved. The qualification process focuses on approving a manufacturer's capability and then qualifying the envelope by carefully selecting a representative worst case test specimen or worst case samples from production that contain all the potential combinations of materials and processes, in accordance to the specification that may be used in subsequent production. The QML shall include appropriate processes

and materials identification, with the name and address of the manufacturer's plant. It may also be advisable to list eligible products that may be produced at that manufacturer's facility or line under that approved envelope of processes and materials. A QML may be appropriate for product lines involving many variations, but the same basic processes and materials. QMLs are also appropriate for product lines involving rapid, technological advances that rely on process improvements using variations in materials and processes. Under the QML process, the manufacturing facilities, processes, and materials, and other characteristics are qualified and listed on the QML. Well-documented facility inspection and line certification provisions that are to be used to evaluate a manufacturer's eligibility for listing on the QML must be available. A QML may also be applicable when the product procured to a specification has no identifying industry discrete part numbers; the product is procured to a specification that covers a wide range of technologies; or the product is normally a family of products with similar characteristics (such as printed wiring boards or basic materials used in fabricating an end product). The QML process is used for complex devices, such as custom hybrids, whereby the qualification cost would be excessive or delays would occur if the QPL part by part qualification procedure were used. Each QML could differ in content depending on the item and the critical process that are important in the development of the item.

#### J. FORMAT FOR A QPL OR A QML

Figures B-2 and B-3 give the QPL format. Figure B-7 gives the QML format. Where necessary, the tabular information may be rearranged. For example, use the method in figure B-5 to list repetitive plant and office addresses for more than one product or category. The lists shall be typewritten and reproduced on standard size 8-1/2 by 11-inch paper.

1. Symbol, Numbering, and Title. Identify QPLs or QMLs by the symbol "QPL" or "QML" followed by the number of the associated specification and an issue number to identify the issue of the QPL or the QML. For example: "QPL-3125-1" identifies the initial issue of the QPL associated with military specification MIL-P-3125. "QML-38534-1" identifies the initial issue of the QML associated with specification MIL-M-38534. For Federal specifications, both the specification symbol and number are used. Thus, "QPL-GGG-T-591-2" identifies the second issue of the list associated with Federal specification GGG-T-591. For non-Government specifications, both the specification symbol and number are used. Thus, "QPL-AS604-1"

identifies the first issue of the list associated with the Society of Automotive Engineers Aerospace Standard AS604. Do not use the specification revision indicator in the QPL or the QML number. The title of the QPL or the QML must be the same as the title of the general 'specification.

2. FSC. Identify the applicable FSC to which the qualified product belongs in the lower right-hand corner of the QPL or the QML (see figure B-2).

3. Preamble. Immediately following the document identifier and title of the associated specification, the following preamble shall appear on each QPL or QML:

"This list has been prepared for use by or for the Government in the acquisition of products covered by the subject specification and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice, revision or amendment of this list will be issued as necessary. The listing of a product does not release or otherwise affect the obligation of the manufacturer to comply with the specification requirements."

"The activity responsible for this QPL (or this QML) is (insert name, office symbol, and address of the standardization office of the Preparing Activity)."

Locate this notice on the QPL (or the QML) as shown on figure B-3. Where the Preparing Activity designates another activity to act as its agent, the list shall include "The activity designated as agent for all contacts relative to this QPL (or QML) is (insert name, office symbol, and address of the agent) ."

4. Validation of OPLS and QMLs. QPLs and QMLs shall show validation information in the upper left-hand corner by inclusion of one of the following, as appropriate:

a. Retention by certification

QUALIFICATIONS CERTIFIED

(MONTH)

(YEAR)

Indicate the current validation date on all subsequent issues of the list.

b. Retention by submittal of test data

QUALIFICATIONS HAVE BEEN VALIDATED  
(Frequency: See specification)  
BY TEST DATA

c. Retention by requalification

ON QPL : ALL LISTED PRODUCTS HAVE BEEN REQUALIFIED  
ON QML : ALL LISTED MANUFACTURERS HAVE BEEN RECERTIFIED  
(Frequency: See specification)

5. Revisions and Amendments. Identify revisions by the date and an issue number in proper numerical sequence. Thus, the revision of QPL-3125-2 associated with specification MIL-R-3125 shall be identified as "QPL-3125-3" (same for the QML) . Identify an amendment by appropriate date and the notation "AMENDMENT \_\_\_\_\_ (No. ) " placed below the document identifier with the number in proper numerical sequence. See figure B-4. The preparation of a revision is appropriate when changes are numerous. When a specification is declared "Inactive for New Design, " the list must be revised to contain a note on the first page of the list which states that the specification has been so declared, the effective date, and that the QPL or the QML still applies to the inactive issue for all legal acquisitions other than for use in new designs. Indicate when some, but not all, part numbers or specification sheets are inactive. Enclose the following note in a solid line box:

Effective \_\_\_\_\_ (date), MIL-X-12345A has been declared "Inactive for New Design" and superseded for new design by MIL-X-45678. This QPL (or QML), is applicable on all acquisitions to which MIL-X-12345A is applied.

6. Notices of Cancellation. Figure B-8 gives the format for a cancellation notice. Besides indicating the specific issue of the QPL or the QML which is canceled, statements similar to the following may be included:

a. "The specification covering the product listed has been canceled by a separate notice."



b. "Qualification has been deleted from the specification by revision (symbol ) or amendment (number) , dated \_\_\_\_\_."

#### K. QUALIFICATION OF FOREIGN-MADE PRODUCTS

1. Testing of Foreign-Made Products. Except for products qualified in accordance with the agreements listed below, qualification testing of foreign-made products shall be at an acceptable facility located in the United States.

a. DoD bilateral agreements with Australia, Canada, and Ireland for Reciprocal Qualification of Products of Nonresident Manufacturers;

b. NATO STANAG 4093 (reference (ff)) .

c. Other international standardization agreements applicable to product qualification.

2. Qualification of Foreign-Source Established Reliability Items and Other Foreign-Source Critical Defense Items. A foreign product to be qualified to, or cross-listed on, the QPL or the QML of any military specification having established reliability requirements, or any other military specification that involves the high-reliability requirements of MIL-STD-790, MIL-STD-976, MIL-STD-989, MIL-STD-1772, or MIL-I-38535 (references (gg) through (kk)) must be manufactured in the United States or its possessions, Canada, Australia, Ireland, or any NATO country that has ratified and implemented an International Standardization Agreement, such as NATO STANAG 4093 (reference (ff)). Such products manufactured in those countries shall be qualified, in accordance with the procedures in the international agreements or (reference (ff)) . Products manufactured or submitted from any other country shall not be qualified unless that country has concluded, ratified, and implemented an international agreement with the United States for mutual and reciprocal qualification acceptance based on commonality of specification requirements, and such agreement requires the applying country to have in operation an inspection authority, organization, and procedure satisfactory to the U.S. NQA. However, the NQA shall not allow qualification of a foreign-made product when it is determined that such qualification will jeopardize a critical U.S. defense mobilization production base for that product. This provision shall not preclude use of foreign-source processed raw material as determined by the qualifying activity provided that such material is inspected in the United States to ensure conformance to U.S. specification requirements before incorpo-

ration into end items qualified to U.S. military specifications. No deviation from this policy shall be allowed, except when necessary for accommodating a special or urgent circumstance. The U.S. NQA shall submit any deviation from this policy with justification through its DepSO to the OASD(P&L)SPD for approval before implementation.

L. IMPLEMENTATION OF NATO STANDARDIZATION AGREEMENT (STANAG) 4093

1. Scope. This section provides procedures for U.S. implementation of NATO STANAG 4093 (reference (ff)). The agreement establishes two methods of international reciprocity for product qualification testing, approvals, certification, and listing.

a. Acceptance of another NATO country's specification and corresponding QPL.

b. Acceptance of another NATO country's qualification approval as basis for listing of a product on a country's own QPL.

2. Procedures for Acceptance Another NATO Country's Specification and Corresponding QPL

a. When the Department of Defense accepts another NATO country's qualified-product specification for use in DoD acquisitions, a Preparing Activity, also designated as the NQA, shall be assigned by the OASD(P&L)SPD to conduct a review to determine the extent to which that country's QPL will be accepted by the United States. This responsibility shall be delegated to the Preparing Activity having the predominant DoD user interest and technical expertise in the type of product covered by the country's specification. A copy of the foreign QPL will be requested from that country's NQA. If additional product information is required, the foreign NQA will be requested to provide to the U.S. NQA a copy of the test data which is the basis for the foreign qualification approval. The data should include descriptions of test procedures, test equipment, methods, dates of calibration and complete test results, computations and analysis, and identification of the testing officials. If review of the data indicates that additional data or testing is necessary to validate compliance with the product specification requirements, the U.S. NQA shall notify the foreign NQA accordingly. The foreign NQA and suppliers listed on the foreign QPL shall be notified that for some use-applications involving critical performance reliability, the Department of Defense reserves the right to require additional tests to be conducted in accordance with U.S.

national procedures and regulations. The responsibility for the costs for conducting additional testing and providing data which exceeds that required in the specification used for the foreign qualification approval shall be a matter for negotiation between the product supplier and the designated U.S. NQA.

b. When another NATO country accepts for its own use a U.S. qualified-product specification and is considering the extent to which it will accept the related QPL, the U.S. NQA (for the specification) will provide to the other country, if requested, a copy of the test data on which the U.S. QPL was based. If the other country requests data which exceeds that required for U.S. qualification approval, the manufacturer shall be requested to provide it; however, the responsibility for the costs for conducting the additional testing and providing data which exceeds that required for U.S. qualification approval, shall be a matter for negotiation between the product supplier and the foreign NQA.

3. Procedures for Acceptance of Another NATO Country's Product Qualification Approval as Basis for Listing on a Country's OPL

a. The following procedure shall be followed for requests by U.S. manufacturers for listing their qualified products on the QPL of another country:

(1) Applications from U.S. manufacturers having products listed on the U.S. QPL shall be submitted to the U.S. Preparing Activity of the specification for transmittal to the NQA of the appropriate country.

(2) The application shall include a copy of the test report on which U.S. qualification approval was based. If required, translations of the test report shall be furnished by the applicant. Normally, translation of reports will not be required if they are prepared in English or French, the official NATO languages.

(3) The NQA shall prepare a letter forwarding the application with the qualification test report and a copy of the U.S. specification and corresponding QPL to the other country's NQA for acceptance. The letter shall include a request for copies of correspondence transmitted between that country and the applicant. Copies of correspondence shall be furnished to the foreign NQA.

b. The following procedure shall be followed for requests from U.S. manufacturers for listing on another country's QPL under that country's specification:

“(1) A U.S. manufacturer desiring qualification of a product in conformance with a specification of another NATO country should submit directly to the NQA or the NCA of that other country a request for the current applicable product specification and related qualification process instructions and standards. The applicant may request assistance from the OASD(P&L) SPD.

(2) If the country to which the request is made agrees to allow qualification of the applicant's product and provides access to the necessary documents in accordance with NATO STANAG 4093 (reference (ff)), procedures shall be as follows:

(a) The applicant shall be authorized by the U.S. NCA to conduct the tests under the monitorship of the cognizant U.S. Government inspector. That applicant shall be responsible for full conformance with the current issue of the other country's product specification qualification test requirements. After completion of tests, the applicant shall provide to the U.S. NCA, through the U.S. Government inspector, a copy of the test report and the product specification in English, and if requested, a copy of the test report in the language of the country to which application is being made. Test reports shall contain description of the test procedures, test equipment, methods, dates of calibration, and complete test results and computations, with reference to the applicable documents. In addition, test reports will include a certification signed by a responsible quality assurance management official of the applicant company that the tests were conducted in strict compliance with the specification and that the product meets all of the qualification requirements of the applicable product specification. The certification document with signature submitted by the applicant must be validated by signature of the cognizant U.S. Government inspector.

(b) After approval for listing of the product on the U.S. NATO nations' QPL, the application shall be forwarded to the appropriate country for acceptance.

c. The following procedure shall be followed for requests from manufacturers of other NATO countries for listing of their product on an U.S. QPL, based on tests conducted by or under the jurisdiction of their own country and validated by the NCA in that country:

(1) If the product has been granted qualification approval by the foreign manufacturer's own country, in accordance with NATO STANAG 4093 (reference (ff)), the request and test data supporting qualification, shall be forwarded by the foreign NCA to the U.S. NQA, the Preparing Activity of the U.S. specification, for evaluation. If review of the product data indicates that additional data or testing is necessary to validate compliance with the product specification requirements, the U.S. Preparing Activity shall notify the foreign NCA and applicant accordingly, including reference to the specific requirements involved. The foreign NCA and the applicant shall be notified that the Department of Defense reserves the right to require additional tests to be conducted, in accordance with its procedures and regulations, if necessary for validation of critical performance characteristics.

(2) Qualification approval and listing will be made only if evaluation of the test data satisfies the U.S. Preparing Activity that the product conforms to all requirements of the U.S. specifications; and the applicant certifies that he or she shall be bound by the U.S. provisions governing qualification.

(3) Qualification approvals granted under these procedures shall be in accordance with this Appendix.

(4) If qualification is not granted, notification of nonacceptance and reasons therefor shall be forwarded to the applicant through the applicant's NQA.

(5) If the Preparing Activity finds cause to remove an allied NATO country's product from the U.S. QPL or to require requalification, the NQA of the manufacturer's country shall be advised by copy of the letter to the manufacturer including the reasons for the action. The foreign manufacturer shall be subject to the QPL recertification approval in the same manner as U.S. manufacturers.

(6) Copies of correspondence shall be furnished the NCA.

d. If the NQA of another country finds cause to remove an U.S. manufacturer's product from the country's QPL, the appropriate U.S. NQA shall be notified of the action and the reasons for removal.

4. Establishment and Maintenance of a NATO Nations' QPL by the United States. Products granted qualification approval by the United States under specifications issued by other NATO countries shall be

listed on a QPL designated as "NATO Nations' QPL". The U.S. NQA shall maintain the NATO Nations' QPL. Figure B-9 gives the format for a NATO QPL.

5. NQAs'. The NQAs of NATO countries shall provide information about qualification approval under the terms of NATO STANAG 4093 (reference (ff)) to U.S. manufacturers on request.

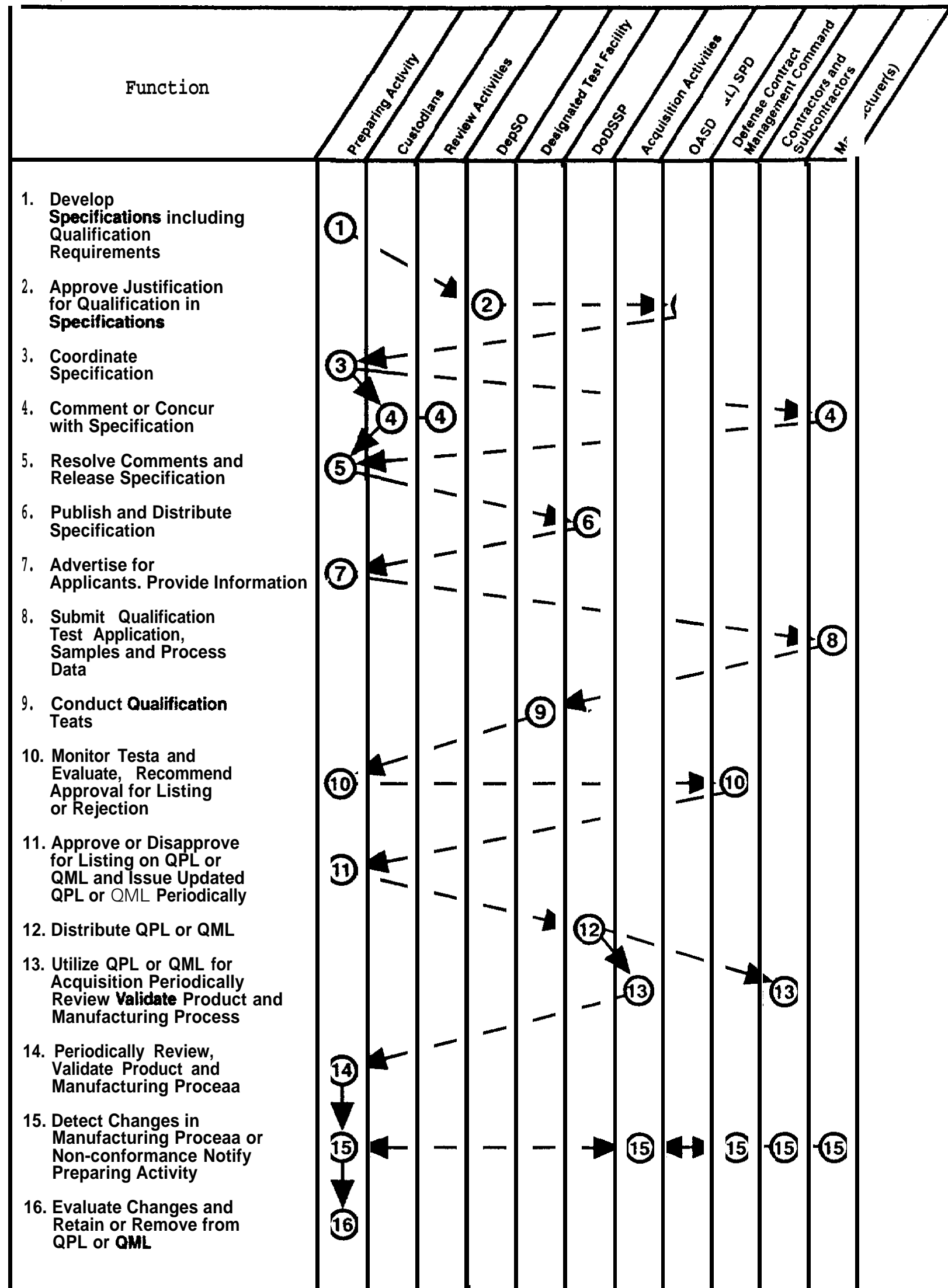


Figure B-1. Qualification Process Management

QUALIFICATIONS CERTIFIED  
MAY 1986 /

QPL-3134-68  
27 May 1986  
SUPERSEDING  
QPL-3134-67  
13 May 1985

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION  
MIL-D-3134

DECK COVERING MATERIALS

This list has been prepared for use by or for the Government in the acquisition of products covered by the subject specification and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the contractor from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QUALIFIED PRODUCTS LIST IS THE NAVAL SEA SYSTEMS COMMAND, SEA 05Q42, DEPARTMENT OF THE NAVY, WASHINGTON, DC 20362-5101.

GOVERNMENT DESIGNATION	MANUFACTURER' S DESIGNATION	TEST OF QUALIFICATION REFERENCE	MANUFACTURER' S NAME AND ADDRESS
Type I Class 1	Neocrete Terrazzo #33	Frederick A. Bacon Lab. Rpt. c-2217 NYK Mat. Lab. 6-434 & Service Test USS INGRAHAM (DD 694)	The Ascon Products co. P.O. Drawer 701 Niantic, CT 06357 Plant: 7 Pennsyl- vania Ave. Niantic, CT 06357

AMSC N/A

FSC 5610

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Figure B-2. Example of a QPL



QPL-3134-68

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	TEST OF QUALIFICATION REFERENCE	MANUFACTURER'S NAME AND ADDRESS
Type I Class 1	DEX-O-TEX N-38 Terrazzo	NYK Mat. Lab. 4336-252	Crossfield Products Corp. 140 Valley Rd. Roselle Park, NJ 07204 Plants: 3000 East Harcourt St. Compton, CA 90221 140 Valley Road Roselle Park, NJ 07204
Type I Class 1	DEX-O-TEX P-61 Terrazzo	Foster D. Snell Inc. Rpt. 10/28/63 SS BRASIL NAVSHIPYD, PUGET Rpt. C-2253-75	Crossfield Products Corp. 140 Valley Rd. Roselle Park, NJ 07204 Plants: 3000 E. Harcourt St. Compton, CA 90221 140 Valley Road Roselle Park, NJ 07204 4407 Meridian St. Moss Point, MS 39563 5422 Shilshole Ave. N.W., Seattle, WA 98107
Type I Class 1	Monile Roman Terrazzo	MAMECO Inter- national Rpt. 221-75 NAVSHIPYD, PUGET Rpt. C-1152-76 Service Test USCGC MACKINAC (WACB-83)	MAMECO International 4475 E. 175th St. Cleveland, OH 44128 Plant: Same Address

Figure B-2. Example of a QPL, continued

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER SAE AEROSPACE STANDARD  
AS604  
HOSE ASSEMBLY, TETRAFLUOROETHYLENE, HIGH-TEMPERATURE  
300 0 PSI, HYDRAULIC AND PNEUMATIC, HEAVYWEIGHT (HEAVY BRAID)

This list has been prepared for use by or for the Government in the acquisition of products covered by the subject non-Government standard and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest adopted issue of the applicable non-Government standard. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the non-Government standard requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QUALIFIED PRODUCTS LIST IS THE AIR FORCE ASD/ENES, WRIGHT-PATTERSON AFB, OHIO 45433-6503. THE QUALIFYING ACTIVITY RESPONSIBLE FOR QUALIFICATION APPROVAL IS ASD/ENFEM, WRIGHT-PATTERSON AFB, OHIO 45433-6503.

PREVIOUS GOVERNMENT DESIGNATION	NON-GOVERNMENT STANDARD BODIES DESIGNATION	MANUFACTURER' S DESIGNATION	TEST OR QUALIFICATION REFERENCE	MANUFACTURER' S NAME AND ADDRESS
MS27363E(-04) MS27364E(-04)	AS627-04 AS628-04	AR1411-4	ASD/ENFEM ltrs 30 Aug 77 and 12 Ott 78	Aeroquip Corporation Aerospace Division 300 S. East Avenue Jackson, MI 49203-1972
MS27366E(-04) MS27367E(-04) MS27368E(-04) MS27369E(-04) MS27370E(-04) MS27371E(-04) MS27372E(-04) MS27373E (-04) MS27374E(-04)	AS630E AS631E AS632E AS621-04 AS622-04 AS623-04 AS624E AS625E AS626E			Plants:  Jackson Plant Same address Middlesex Plant Middlesex, NC 27557-0369
				1 of 14 QPL-AS604-1
AMSC N/A				FSC 4720

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Figure B-3. Example of a QPL for a NGS

QUALIFICATION CERTIFIED  
OCTOBER 1983

QPL-16173-64  
AMENDMENT-1  
31 July 1984

/

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION  
MIL-C-16173

CORROSION PREVENTIVE COMPOUND, SOLVENT CUTBACKS, COLD APPLICATION

This list has been prepared for use by or for the Government in the acquisition of products covered by the subject specification and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the contractor from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QUALIFIED PRODUCTS LIST IS THE NAVAL SEA SYSTEMS COMMAND, SEA 05Q42, DEPARTMENT OF THE NAVY, WASHINGTON, DC 20362-5101.

		TEST OF	
GOVERNMENT	MANUFACTURER'S	QUALIFICATION	MANUFACTURER'S
DESIGNATION	DESIGNATION	REFERENCE	NAME AND ADDRESS

THIS AMENDMENT FORMS A PART OF QPL-16173-64 DATED 26 OCTOBER 1983

Page 12: Add the following product:

Grade 2	LPS-3	Scientific Material Int. Rpt. 830845	Holt Lloyd Corp. 4647 Hugh Howell Rd. Tucker, GA 30084 Plant: Same address
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AMSC N/A

FSC 8030

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Figure B-4. Example of a QPL Amendment

QUALIFICATION CERTIFIED  
MARCH 1978

QPL-7032-26  
31 March 1978  
SUPERSEDING  
QPL-7032-25  
17 October 1977

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION  
MIL-I-7032  
INVERTER, AIRCRAFT, GENERAL SPECIFICATION FOR

This list has been prepared for use by or for the Government in the acquisition of products covered by the subject specification and such listing of a product is not intended to and does not connote endorsement of the product by the Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QUALIFIED PRODUCTS LIST IS THE NAVAL AIR WARFARE CENTER AIRCRAFT DIVISION LAKEHURST, (CODE SR3), LAKEHURST, NJ 08733

GOVERNMENT DESIGNATION	MANUFACTURER' S DESIGNATION	TEST OF QUALIFICATION REFERENCE	MANUFACTURER' S NAME AND ADDRESS
CLASS B			
MS16057-1	MGE-93-200	BuWeps ltr RAAE-522: EAW dtd 21 Feb 1961	AMF Electrosystems Div.
MS16057-3	702775	NATC ltr 4123 SER SY60/429 dtd 13 Feb 1976	Aerospace Avionics, Inc.
AMSC N/A			FSC 6125

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Figure B-5. Example of a Modified Method for Listing Manufacturers

QPL-7032-26

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	TEST OF QUALIFICATION REFERENCE	MANUFACTURER'S NAME AND ADDRESS
MS16062-1	32B161-1-B	NATC ltr 4123 Ser SY60/102 dtd 17 Mar 1976	Bendix Corporation
MS17404-2	32B56-9-C	NATC ltr 4123 Ser SY60/045 dtd 9 Feb 1978	
MS17404-2	MGE-23-400A	MATC ltr 1423 WST 43-509 dtd 9 Sep 1971	AMF Electrosystems
MS17406-1	MGH-182-100A	NATC ltr WST 33-431 dtd 3 Aug 1971	
MS17406-1	32B180-9-B	NATC ltr WST 33-432 dtd 30 July 1971	Bendix Corporation
MS17406-3	PS-277-3	NATC ltr 4123 Ser SY60/640 dtd 9 Dec 1976	EMP Electronics, Inc.
MS17406-3	EMIR 283A	NATC ltr 4123 Ser SY60/235 dtd 13 May 1977	Gulton Industries, Inc.

Figure B-5. Example of a Modified Method for Listing Manufacturers, continued

MANUFACTURER' S COMPLETE NAME AND ADDRESS

Aerospace Avionics, Inc.  
Airport International Plaza  
110 Wilber Place  
Bohemia, NY 11716  
Plant: Same address

AMF Electrosystems Div.  
AMF Incorporated  
Vandalia, OH 45377  
Plant: Same address

Bendix Corporation  
Electric Power Division  
Eatontown, NJ 07724  
Plant: Same address

Gulton Industries, Inc.  
Engineered Magnetics Div.  
13041 Cerise Avenue  
Hawthorne, CA 90250  
Plant: Same address

EMP Electronics, Inc.  
1231 W. 23rd Street  
Tempe, AZ 85282  
Plant: Same address

Figure B-5. Example of a Modified Method for Listing Manufacturers, continued

QPL-39022-31

MANUFACTURER' S NAME, ADDRESS AND PLANT	CAGE NUMBER	MANUFACTURER' S NAME , ADDRESS AND PLANT	CAGE NUMBER
Acushnet Capacitor Company, Inc. 720 Belleville Avenue New Bedford, MA 02741 Plant: Same address	50930		
Components Research Company, Inc. 1655 26th Street Santa Monica, CA 90404 Plant: Same Address	12517		
Electronic Concepts, Inc. 526 Industrial Way West P.O.Box 627 Eatontown, NJ 07724 Plant: Same Address	50558		
Hi-Rel Capacitor, Inc. 12931 East Sunnyside Place Santa Fe Springs, CA 90670 Plant: Same Address	54795		
Sprague Electric Company Marshall Street North Adams, MA 01247 Plant: Sprague Electric Co. Dearborn Electronics Div. Highway 17 and 92 Longwood, FL	56289		
Union Carbide Corporation Materials System Division P.O.Box 5928 Greenville, SC 29606 Plant: Route 276, S.E. Greenville, SC	31433		
West-Cap Arizona Subsidiary of San Fernando Electric Company 2201 Elvira Road Tucson, AZ 85706 Plant: Same Address	32159		

Figure B-6. Example of a QPL Listing CAGE Number

QUALIFICATION VALIDATED  
ANNUALLY

QML-1234  
24 September 1991

QUALIFIED MANUFACTURERS LIST

OF

MILITARY SPECIFICATION

MIL-B-1234

PRINTED WIRING BOARDS

This list has been prepared for use by or for the Government in the acquisition of Printed Wiring Boards to the performance requirements of Specification MIL-B-1234. This listing is not intended to and does not connote endorsement by the Department of Defense. All manufacturers listed herein have been certified under the requirements as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing does not release the manufacturer from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QML IS THE U.S. ARMY LABORATORY COMMAND (LABCOM). The activity designated as agent for all contacts relative to this QML is the Defense Electronics Supply Center (DESC-EQ) Dayton, Ohio 45444-5000, (513)296-6225.

Extent of qualification. Qualification of a particular board type shall be extended to cover all conductor patterns of that same board type produced. Qualification of type 3 boards shall be extended to cover type 1 and type 2 boards. Qualification of type 2 boards shall be extended to cover type 1 boards. Qualification with type GF base material shall be extended to cover types GB and GH base materials. Qualification with type GR base material shall be extended to cover type GP base material.

Extent of qualification (mass lamination). Qualification of a contract lamination (four conductor layers) shall be extended to cover a contract lamination of three conductor layers. Qualification of a contract lamination (ten conductor layers) shall be extended to cover a contract lamination of three or more conductor layers.

AMSC N/A

FSC 5998

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Page 1 of 3 Pages

Figure B-7. Example of a QML

B-40



QML-1234

Notes:

- a./ The QML format includes the qualification expiration date as the last six digits of the test reference number (e.g. mm/dd/yy) .
- b. An asterisk (\*) adjacent to the qualification reference number denotes that the product was tested for and meets the etchback requirements.
- c. Two asterisks (\*\*) adjacent to the qualification reference number denotes that the product was tested and meets the requirements for mass-lamination with contract services as indicated.
- d. Printed circuit board materials listed herein must have been qualified under Military Specification MIL-P-13949.

BASE MATERIAL

- GB (13949/2) - Glass, Woven, Majority Polyfunctional Epoxy Resin, Not Strength Retention
- GF (13949/4) - Glass Base, Woven, Majority, Difunctional EPOXY Resin, Flame, Resistant
- GH (13949/5) - Glass Base, Woven, Majority Polyfunctional Epoxy Resin, Not Strength Retention, Flame Resistant
- GP (13949/6) - Glass Base, Nonwoven, Polytetrafluoroethylene Resin
- GR (13949/7) - Glass Base, Nonwoven, Polytetrafluoroethylene Resin, Flame Resistant

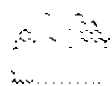
MANUFACTURER'S NAME (ADDRESSES ON LAST PAGE)	TEST REFERENCE - EXPIRATION DATE (MM/DD/YY)	MANUFACTURER'S NAME (ADDRESSES ON LAST PAGE)	TEST REFERENCE - EXPIRATION DATE (MM/DD/YY)
<u>GF, Type 3</u>		<u>GF, Type 1 &amp; 2</u>	
Advanced Quick Circuits	1234-183-061492*	Accutronics, Inc.	1234-409-110793
Automated Systems, Inc.	1234-132-080391*	Alpha Circuits, Inc.	1234-417-01"0692
<u>GF, Type 1 &amp; 2 &amp; 3</u>			
A&C Electronics	1234-128-040693*		
AAI Corp.	1234-426-123091		

Figure B-7. Example of a QML, continued

QML-1234

MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE	MANUFACTURER'S NAME, ADDRESS AND PLANT	CAGE CODE
A & C Electronics 18153 Napa Street Northridge, CA 91325 Plant: Same Address	65812	Advanced Quick Circuits 245 East Drive Melbourne, FL 32904 Plant: 600-c N. John Rhodes Blvd. Melbourne, FL 32935	64324
AAI Corporation P.O.Box 126 Hunt Valley, MD 21031 Plant: York Rd. & Industrial Lane Building 110 Cockeysville, MD 21030	02127	Alpha Circuits, Inc. 331 East Main Street Middletown, CT 06457 Plant: Same Address	78339
AF -2 15115 Minnetonka Industrial Road Minnetonka, MN 55345 Plant: 3905 California Street NE Minneapolis, MN 55421	66695	American Electronic Laboratories 305 Richardson Road Lansdale, PA Plant: Same Address	19544
Accutronics Inc. 225 N. First Street Cary, IL 60013 Plant: Same Address			

Figure B-7. Example of a QML, continued





NOTICE OF  
CANCELLATION

QPL-19875-14  
NOTICE 1  
28 May 1986

QUALIFIED PRODUCTS LIST  
OF  
PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION  
MIL-S-19875  
SCALING AND CHIPPING TOOL, ROTARY, PORTABLE, ELECTRIC,  
FUNCTIONAL OR DOUBLE INSULATED, AND CUTTER BUNDLES

GOVERNMENT DESIGNATION	MANUFACTURER' S DESIGNATION	TEST OF QUALIFICATION REFERENCE	MANUFACTURER' S NAME AND ADDRESS
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Qualified Products List QPL-19875-13 dated 1 July 1982 is hereby canceled.

Military Specification MIL-S-19875B(SH) which covered the products listed thereon has been canceled without replacement.

AMSC N/A

FSC 5130

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Figure B-8. Example of a QPL Cancellation Notice

U.S. QUALIFIED PRODUCTS LIST

OF

PRODUCTS QUALIFIED UNDER SPECIFICATION

OF OTHER NATO COUNTRIES

This list has been prepared to record the qualification approvals granted under the specification listed, in implementation of STANAG-4093, and such listing of a product is not intended to and does not connote endorsement of the product or intent to procure by the U.S. Department of Defense. All products listed herein have been qualified under the requirements for the product as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the specification requirements.

THE ACTIVITY RESPONSIBLE FOR THIS QUALIFIED PRODUCTS LIST IS THE (PREPARING ACTIVITY AND ADDRESS OF THE SPECIFICATION) .

GOVERNMENT DESIGNATION	MANUFACTURER' S DESIGNATION	TEST OF QUALIFICATION REFERENCE	MANUFACTURER' S NAME AND ADDRESS
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(List number and title of specifications and name of issuing country.)

Figure B-9. Example of a QPL-NATO